Thick Film Resistor Market - An Emerging Hint of Opportunity

Thick Film Resistor Market Competitive Landscape and Trend Analysis Report by Industry : Global Opportunity Analysis and Industry Forecast, 2023-2032

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NEW CASTLE, DELAWARE, UNITED STATES, November 7, 2023 /EINPresswire.com/ -- Thick film resistor is a two terminal electronic component that is used to resist or reduce the amount of current flowing in an electronic circuit. Thick film resistor is a type of fixed resistor which is made up of resistive layer of ceramic base produced by firing a special paste onto the substrate, and the paste is made using glass and metal oxide. Unlike thin film, the process of making thick film resistors is additive, the resistive layers are added one after another to the substrate to create the conducting pattern and resistance value. The amount of resistive layer on thick film resistor is ±100µm, whereas thin film layer thickness is ±1µm. Moreover, thick film resistors can be made into chip resistor of various resistance values, sizes, shapes, and these different types of resistors are used in different applications. The resistors used for surface mount technology (SMT), or custom thick-film hybrid networks, or low- temperature cofired ceramic (LTCC) in various sector with an increase focus in smart city projects. Furthermore, the emerging adoption 5G network has driven the demand for telecom equipment installed with thick film resistor.

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Thick film resistor market has been severely affected by the ongoing pandemic. Government restrictions and lockdown has halted the overall operation and manufacturing of thick resistors. Also, the demand and supply of thick film resistor has been disrupted since, the manufacturing

of automobile industry the largest user of these resistors was stopped. Moreover, unavailability of labour due to social distancing norms and other restrictions further delayed the production. Furthermore, due to restrictions there was a shortage in the raw material required for thick film resistor production. In addition, during the COVID-19 pandemic the sale in the electric vehicle has increased than the previous year. This factor is expected to drive the growth of thick film resistor market amidst the pandemic.

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Rise in investment in R&D to increase efficiency of thick film resistor, rise in consumer electronics & automotive market, and rise in demand for electric & hybrid vehicles is expected to drive the growth of market.

However, lack of profit due to reduction in prices and development of new technology will replace the thick film resistor will hamper growth of market.

Moreover, rise in consumer spending, rise in demand for advanced features in commercial vehicle, and rise in adoption of 4G and 5G network will act as an opportunity for growth of market.

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Commercial vehicles are low on both on safety and luxury features compared to passenger vehicles. Therefore, regulatory authorities in different countries are upgrading the norms for commercial vehicles. For instance, European Union (EU) has made air-conditioning mandatory for heavy vehicles from 2017 and heating, ventilation & air conditioning (HVAC) mandatory for buses & coaches. Furthermore, in 2019, the heavy trucks were mandated to be installed with electronic logging devices (ELD) from US department of transportation's federal motor carrier safety administration (FMCSA). All the regulations would increase electronic devices installation which results in demand for more thick film resistors for commercial vehicle thus, it is expected to drive growth of thick film resistor market.

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This study presents the analytical depiction of the thick film resistor market along with the current trends and future estimations to determine the imminent investment pockets.

The report presents information related to key drivers, restraints, and opportunities along with challenges of the thick film resistor market.

The current market is quantitatively analyzed to highlight the thick film resistor market growth scenario.

The report provides detailed thick film resistor market analysis based on competitive intensity and how the competition will take shape in coming years.

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Which are the leading market players active in the thick film resistor market?
What would be the detailed impact of COVID-19 on the market?
What current trends would influence the market in the next few years?
What are the driving factors, restraints, and opportunities in the thick film resistor market?
What are the projections for the future that would help in taking further strategic steps?

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Rohm Semiconductor, TE Connectivity, KOA Speer Electronics INC., YAGEO Corporation, Panasonic Corporation, Viking Tech Corporation, Murata Manufacturing Co. Ltd., TT Electronics, Bourns Inc., Vishay

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Automotive
Electrical & Electronics
Telecommunication

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Thick Film Power Resistor
Thick Film Chip Resistor
Through Hole Type
Shunt Resistor

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ICE Vehicles
Electric Vehicles
Hybrid Vehicles

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Asia-Pacific (China, Japan, India, South Korea, Rest of Asia-Pacific)
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